

M318D

Wheel Excavator



Engine

Engine Model	Cat® C6.6 with ACERT™ Technology
Net power (ISO 9249) at 1,800 rpm	124 kW (169 hp)

Weights

Operating Weight	18 200 to 20 100 kg
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Bucket Specifications

Bucket Capacities	0.38 to 1.26 m³
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Working Ranges

Maximum Reach at Ground Level	9600 mm
Maximum Digging Depth	6360 mm

Drive

Maximum Travel Speed	37 km/h
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Features

Engine

The EU Stage IIIA compliant C6.6 offers increased performance and reliability while reducing fuel consumption and sound levels.

Environmentally Responsible Design

Helping to protect our environment, the engine has low operator and spectator sound levels, longer filter change intervals and is more fuel-efficient.

Hydraulics

The state of the art load-sensing hydraulic system combined with a separate dedicated swing pump provides fast cycle times, increased lift capacity and high bucket and stick forces. This combination maximizes your productivity in any job.

Serviceability

For increased safety, all daily maintenance points are accessible from ground level. A centralized greasing system allows lubrication of critical points.

Operator Comfort

The totally redesigned operator station maximizes comfort while increasing safety. The available auto-weight adjusted air-suspension seat with heated and cooled ventilated cushions improves operator comfort. Safety is enhanced by the new color monitor and standard rear-mounted camera.

Undercarriage

Various undercarriage configuration with blade and outriggers are available to provide the best solution for you.

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The D Series incorporates innovations for improved performance and versatility.

Increased lifting capacity, improved cycle times and ease of operation lead to increased productivity and lower operating costs.

Engine

Built for power, reliability, low maintenance, excellent fuel economy and low emissions.

Powerful Performance

The Cat® C6.6 engine with ACERT™ Technology introduces a series of evolutionary, incremental improvements that provide breakthrough engine performance. The building blocks of ACERT Technology are fuel delivery, air management and electronic control. ACERT Technology optimizes engine performance while meeting EU Stage IIIA engine emission regulations. The Cat C6.6 engine in the M318D delivers a maximum gross power of 130 kW at a rated speed of 1,800 rpm. This is 9% more horsepower as compared to the 3056E in the M318C.

Low Fuel Consumption

The C6.6 is electronically controlled and uses the new Cat Common Rail Fuel System and fuel pump. This combination provides outstanding fuel consumption during both production and travel. When the system recognizes roading application the engine will operate at the most efficient system operating point to save fuel without compromising road performance.

Low Noise, Low Vibration

The Cat C6.6 design improves operator comfort by reducing sound and vibration.

Cooling System

An electronically controlled, hydraulic motor drives a variable speed on-demand fan for engine coolant and hydraulic oil. The optimum fan speed is determined based on coolant and hydraulic oil temperature resulting in reduced fuel consumption and lower sound levels. The electronic engine control continuously compensates for the varying fan load, providing consistent net power, regardless of operating conditions.

One-Touch Low Idle Control

The two stage, one-touch Automatic Engine Speed Control reduces engine speed if no operation is performed, maximizing fuel efficiency and reducing sound levels.

Waste Handling Package

The Waste Handling Package has been specifically developed for Cat Wheel Excavators working in waste transfer stations or other extremely dusty applications. This option features the following:

- An automatic, hydraulic reversible fan that reverses airflow after a set interval, manually adjustable between 5 and 60 minutes with a switch located inside the cab.
- A special dense wire mesh cooling system hood further reduces radiator clogging.
- Two cyclone filters provide clean filtered air to the engine compartment, air cleaner, aftercooler and air conditioner condenser.



Hydraulics

Load-sensing hydraulic system provides fast cycle times, increased lift capacity and high bucket and stick forces to maximize your productivity in any job.



Dedicated Swing Pump

A dedicated variable displacement piston pump and fixed displacement piston motor power the swing mechanism. This closed hydraulic circuit maximizes swing performance without reducing power to the other hydraulic functions, resulting in smoother combined movements.

Heavy Lift Mode

This mode maximizes lifting performance by boosting the lifting capability of the excavator by 7%.

Adjustable Hydraulic Sensitivity

This function allows the operator to adjust the aggressiveness of the machine according to the application. For precision work, one of four different levels of aggressiveness can be preselected.

Proportional Auxiliary Hydraulics

Versatility of the hydraulic system can be expanded to utilize a wide variety of hydraulic work tools using multiple valve options.

- The Multi-Combined Valve is the core of the Tool Control System, allowing the operator to select up to ten preprogrammed work tools from the monitor. These preset hydraulic parameters support either one-way or two-way flow. The joystick sliding switches allow modulated control of the work tool.
- A dedicated Hammer circuit is the best option for tools that require one-way flow only, and do not require the flexibility provided by the Multi-Combined Valve.
- The Medium Pressure Function Valve provides proportional flow that is ideal for tilting buckets or rotating tools.
- A new feature for the D Series Wheel Excavators is the optional second High Pressure valve. In combination with the Multi-Combined Valve, it provides the possibility to operate the machine with work tools or in applications requiring a third auxiliary hydraulic function, such as a tilting/rotating work tool.

Stick Regeneration Circuit

The stick regeneration circuit increases efficiency and helps increase controllability for higher productivity and lower operating costs.

Quick Coupler

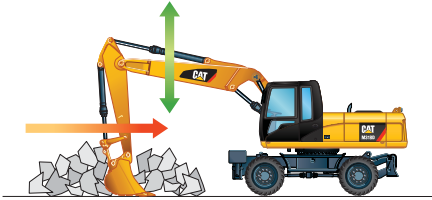
The machine can be optionally equipped with a dedicated hydraulic circuit to operate hydraulic quick couplers.

Hydraulic Snubbers

Caterpillar integrates its cylinder snubber technology into all Wheel Excavator boom and stick cylinders. These snubbers help cushion shocks, reduce sound and increase cylinder life.

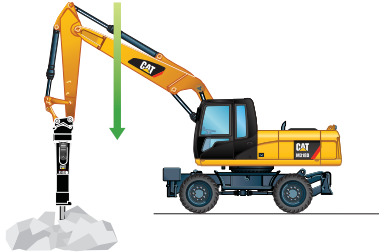
SmartBoom™

Reduces stress and vibrations transmitted to the machine and provides a more comfortable environment.



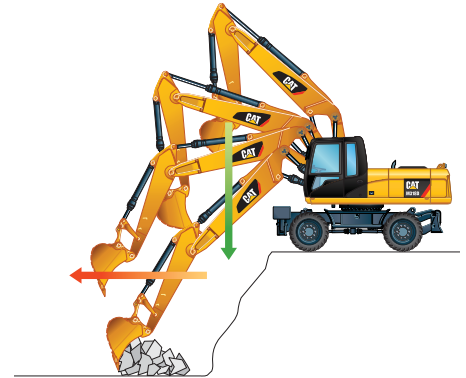
Rock Scraping

Scraping rock and finishing work is easy and fast. SmartBoom™ simplifies the task and allows the operator to concentrate on stick and bucket, while boom freely goes up and down without using pump flow.



Hammer Work

The front parts automatically follow the hammer while penetrating the rock. Blank shots or excessive force on the hammer are avoided resulting in longer life for the hammer and the machine. Similar advantages with vibratory plate compactors.



Truck Loading

Loading trucks from a bench is more productive and fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.

Environmentally Responsible Design

The M318D helps build a better world and preserve the fragile environment.

Fuel Efficiency

The D Series Wheel Excavators are designed for outstanding performance with high fuel efficiency. This means more work done in a day, less fuel consumed and minimal impact on our environment.

Low Exhaust Emissions

The new Cat® C6.6 engine meets the new EU Stage IIIA emissions regulations while offering increased performance, reliability and reduced fuel consumption and sound levels.

Quiet Operation

Operator and spectator noise levels are extremely low as a result of the new variable speed fan and remote cooling system.

Biodegradable Hydraulic Oil

The optional biodegradable hydraulic oil (Cat BIO HYDO Advanced HEEST™) is formulated to provide excellent

high-pressure and high temperature characteristics, and is fully compatible with all hydraulic components. Cat BIO HYDO Advanced HEEST™ is fully decomposed by soil or water microorganisms, providing a more environmentally sound alternative to mineral-based oils.

Fewer Leaks and Spills

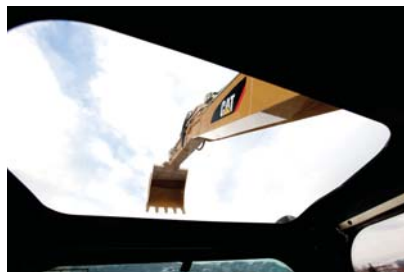
Lubricant fillers and drains are designed to minimize spills. Cat O-Ring Face Seals, Cat XT™ Hose and hydraulic cylinders are all designed to help prevent fluid leaks that can reduce the machine performance and cause harm to the environment.

Longer Service Intervals

Working closely with your Cat dealer can help extend service intervals for engine oil, hydraulic oil, axle oil and coolant. Meaning fewer required fluids and fewer disposal, all adding up to lower operating costs.

Operator Comfort

The interior layout maximizes operator space, provides exceptional comfort and reduces operator fatigue.



Interior Operator Station

Improved visibility and ergonomics are some of the many new features of the D Series Wheel Excavators. The operator station provides maximum space and is designed for simplicity and functionality. Frequently used switches are centralized and are situated on the right-hand switch console. The left-hand seat console controls dozer blade and/or outriggers, and is tiltable for easy access to the cab. The fully automatic climate control adjusts temperature and air flow for exceptional operator comfort. Other comfort features include a cigar lighter, ashtray, cup/can holder, magazine rack and integrated mobile phone holder.

Cab Construction

The exterior design uses thick steel tubing along the bottom perimeter of the cab, improving the resistance to fatigue and vibration. This design allows the falling object guards to be bolted directly to the cab. The cab shell is attached to the frame with rubber mounts that limit vibration and sound transmitted from the frame, substantially reducing interior noise levels.

Viewing Area

To maximize visibility, all glass is affixed directly to the cab, eliminating the use of window frames. Choice of fixed or easy-to-open split front windshield meet operator preference and application conditions.

- The 70/30 split front windshield stores the upper portion above the operator. The lower front windshield features a rounded design to maximize downward visibility and improves wiper coverage. Also features the one-touch action release system.
- The fixed front windshield comes with high impact resistant laminated glass.
- A large skylight provides superb upward visibility. The retractable sunscreen blocks direct sunlight.

Heated Mirrors

Another new feature is electrically heated mirrors, increasing safety and visibility in cold conditions.

Wipers

The parallel wiper system maximizes visibility in poor weather conditions. The wiper virtually covers the entire front windshield, cleaning the operator's immediate line of sight.

Monitor

The new compact color monitor displays information in local language that is easy to read and understand. Functions include:

- 2 times 5 programmable “Quick Access” buttons for one-touch selection of favorite functions.
- Filter and oil change warnings are displayed when the number of hours reaches the maintenance interval.
- Tool select function allows the operator to select up to 10 predefined hydraulic work tools.
- Adjustable braking characteristics enable the operator to select three levels of travel motor retarder aggressiveness when releasing the travel pedal.
- Provides a rear camera view that is activated through the monitor menu.

New Deluxe Seat

The new optional deluxe seat, equipped with an active seat climate system, improves operator comfort. Cooled air flows through the seat cushions to reduce body perspiration. On cold days, a two-step seat heater keeps the operator warm and comfortable. The fully adjustable seat with adjustable lumbar support automatically adjusts to the driver's weight providing a more relaxed and comfortable environment.

Lunch Box

A large storage compartment is located behind the operator's seat. The compartment provides sufficient room to store items such as a lunch box. A cover secures the contents during machine operation.

Foot Pedals

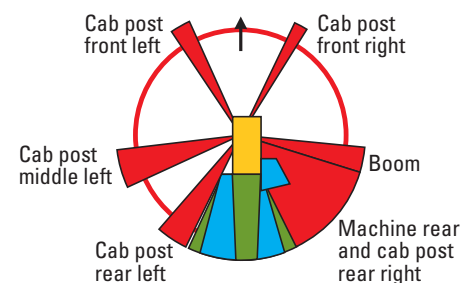
Two-way pedals for travel and auxiliary circuits provide increased floor space, reducing the need to change positions. The foot pedal for auxiliary high-pressure circuit can be locked in the off position and used as a footrest for greater operator comfort.

Cat Standard Rearview Camera

The rearview camera displays on the operator monitor. Together with the best in class visibility to the front, up, left and right, the rearview camera ensures the safe operation of the machine and fulfills the requirements of ISO 5006/EN474.



Field of Vision



Legend:

Red: limitations due to cab post and/or boom

Blue: additional visibility due to mirrors

Green: additional visibility due to rearview camera



Undercarriage

Undercarriage and axle design provides maximum strength, flexibility and mobility on wheels.

Increased Travel Speed

The maximum travel speed for the M318D has been increased from 34 to 37 km/h, reducing travel time between sites and increasing productivity.

Heavy-Duty Axles and Stabilizers

The D Series Wheel Excavator undercarriage provides rigidity and long life. Effective hydraulic line routing, transmission protection and heavy-duty axles make the undercarriage perfect for wheel excavator applications. The front axle offers wide oscillating and steering angles. The transmission is mounted directly on the rear axle for protection and optimum ground clearance.

Advanced Disc Brake System

The disc brake system acts directly on the hub instead of the drive shaft to avoid planetary gear backlash. This solution minimizes the rocking effect associated with working free on wheels. The axle design lowers maintenance and lifetime costs. Oil change intervals are at 2,000 working hours, further reducing owning and operating costs.

Fenders

The optional fenders provide excellent coverage of the front and rear tires, protecting the machine from mud and dirt. Water cannot splash up on the windscreen or cooler. The fenders further protect the machine from stones and debris being thrown up by the tires, providing additional safety for the machine, other vehicles and personnel working close to the excavator.

Adjustable Travel Alarm

An adjustable travel alarm is available to warn people when the machine is moving. Three settings can be selected through the monitor:

- Auto mode – alarm will stop sounding immediately when the machine is no longer traveling, or has been sounding for an uninterrupted 10-second interval.
- Standard mode – alarm operates constantly during moving, with only manual cancellation.
- Off mode – travel alarm is disabled.

Booms and Sticks

Designed for maximum flexibility to keep production high on all jobs.

Design

Booms and sticks are welded, box section structures with thick, multiplate fabrications in high stress areas, for rugged performance and long service life.

Flexibility

The choice of two booms and four sticks provides the right balance of reach and digging forces for all applications.

Variable Adjustable (VA) Boom

The VA boom offers improved right side visibility and machine roading balance. When working in tight quarters or lifting heavy loads, the VA boom offers the best flexibility.

One-Piece Boom

The one-piece boom fits best for all standard applications such as truck loading and digging. A unique straight section in the curve of the side plate reduces stress flow and helps increase boom life.

Sticks

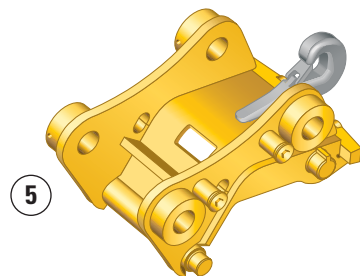
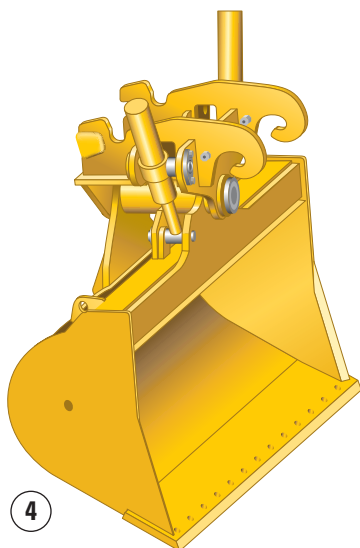
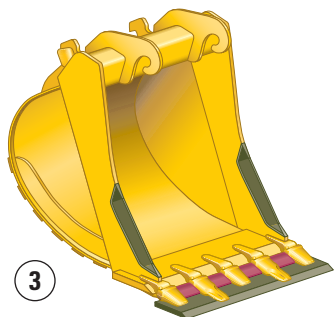
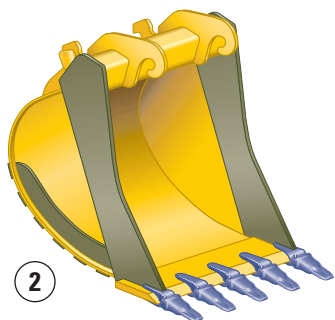
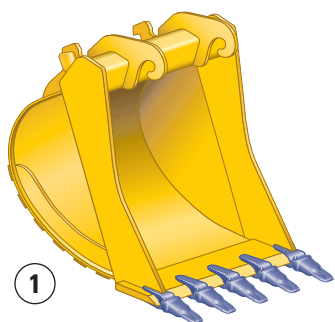
Four different stick lengths are offered to match different application requirements:

- Short stick (2200 mm) for maximum breakout force and lifting capability.
- Medium stick (2500 mm) for greater crowd force and lift capacity.
- Long stick (2800 mm) for greater depth and reach requirements.
- Industrial stick (3300 mm) for use with free-swinging grapples in material handling and industrial applications.



Work Tools

A wide variety of Work Tools help optimize machine performance.



Work Tools

Cat work tools are designed to function as an integral part of your excavator and to provide the best possible performance in your particular application. All work tools are performance-matched to Cat machines.

Quick Couplers

Quick Couplers enable the operator to simply release one work tool and connect to another, making your hydraulic excavator highly versatile. Productivity also increases, as a carrier no longer needs to be idle between jobs. Caterpillar offers hydraulic and spindle quick coupler versions.

Buckets

Caterpillar offers a wide range of specialized buckets, each designed and tested to function as an integral part of your excavator. Buckets feature the new Cat K Series™ Ground Engaging Tools.

- ① **Excavation (X)**
- ② **Extreme Excavation (EX)**
- ③ **Excavation Leveling**
- ④ **Ditch Cleaning**
- ⑤ **Quick Coupler**

Purpose designed and built to Caterpillar's high durability standards.

Hammers

Cat® hammer series deliver very high blow rates, increasing the productivity of your tool carriers in demolition and construction applications. Wide oil flow acceptance ranges make the Cat hammers suitable for a wide range of carriers and provide a system solution from one safe source.

Orange Peel Grapples

The Orange Peel Grapple is constructed of high-strength, wear-resistant steel, with a low and compact design that makes it ideal for dump clearance. There are several choices of tine and shell versions.

Multi-Grapples

The Multi-Grapple with unlimited left and right rotation is the ideal tool for stripping, sorting, handling and loading. The powerful closing force of the grab shells combined with fast opening/closing time ensures rapid cycle time which translates to more tons per hour.

Multi-Processors

Thanks to its single basic housing design, the Multi-Processor series of hydraulic demolition equipment makes it possible to use a range of jaw sets that can handle any demolition job. The Multi-Processor is the most versatile demolition tool on the market.

Vibratory Plate Compactors

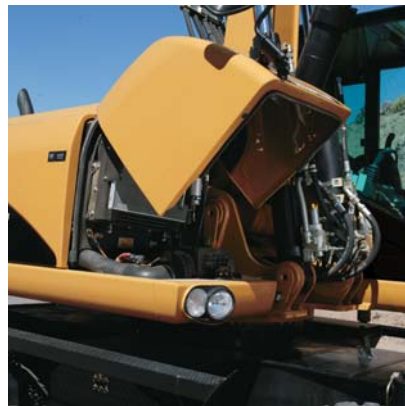
Cat compactors are performance-matched to Cat machines, and integrate perfectly with the Cat hammer line – brackets and hydraulic kits are fully interchangeable between hammers and compactors.

Shears

Cat shears provide superior and effective scrap processing, and are highly productive in demolition environments. Shears are compatible with a matching Cat excavator, and bolt-on brackets are available for either stick or boom-mounted options.



Serviceability and Complete Customer Support



Ground Level Maintenance

Caterpillar designed its D Series Wheel Excavators with the operator and service technician in mind. Gull-wing doors, with pneumatically-assisted lift cylinders, effortlessly lift up to allow critical maintenance to be performed quickly and efficiently while maintaining operator safety.

Extended Service Intervals

The D Series Wheel Excavator service and maintenance intervals have been extended to reduce machine service time, increase machine availability and reduce operating costs. Using S·O·SSM Scheduled Oil Sampling analysis, hydraulic oil change intervals can be extended up to 6,000 hours.

Engine Oil

Cat engine oil is formulated to optimize engine life and performance. The specially formulated oil is more cost effective and increases engine oil change interval to 500 hours, providing industry leading performance and savings.

Air Filters

Cat air filters eliminate the use of service tools, reducing maintenance time. The air filter features a double-element construction with wall flow filtration in the main element and built-in mini-cyclone precleaners for superior cleaning efficiency. The air filters are constantly monitored for optimum performance. If airflow becomes restricted, a warning is displayed by the way of the in-cab monitor.

Capsule Filter

The hydraulic return filter, a capsule filter, prevents contaminants from entering the system when the hydraulic oil is changed.

Fuel Filters

Cat high efficiency fuel filters with a Stay-Clean ValveTM features a special media that removes more than 98% of particles, increasing fuel injector life. Both the primary and secondary fuel filters are located in the engine compartment and can be easily changed from ground level.

Water Separator

The D Series is equipped with a primary fuel filter with water separator located in the engine compartment. For ease of service, the water separator can be easily accessed from ground level.

Fuel Tank Drain

The durable, corrosion-free tank has a remote drain located at the bottom of the upper frame to remove water and sediment. The tank drain with hose connection allows simple, spill-free fluid draining.

Simplified and easy maintenance save you time and money.
Cat[®] dealer services help you operate longer with lower costs.

Front Compartment

The front compartment hood can be opened vertically, providing outstanding ground level access to the batteries, air-to-air aftercooler, air conditioner condenser and the air cleaner filter.

Swing-out Air Conditioner Condenser

The air conditioning condenser swings out horizontally to allow complete cleaning on both sides as well as excellent access to the air-to-air aftercooler.

Scheduled Oil Sampling

Caterpillar has specially developed S-O-SSM Oil Sampling Analysis to help ensure better performance, longer life and increased customer satisfaction. This thorough and reliable early warning system detects traces of metals, dirt and other contaminants in your engine, axle and hydraulic oil. It can predict potential trouble avoiding costly failures. Your Cat dealer can give you results and specific recommendations shortly after receiving your sample.

Engine Inspection

The engine can be accessed from both ground level and the upper structure. The longitudinal layout ensures that all daily inspection items can be accessed from ground level.

Anti-Skid Plates

They cover the top of the steps and upper structure to help prevent slipping during maintenance. The Anti-Skid plates reduce the accumulation of mud on the upper structure, improving the cleanliness and safety.

Easy to Clean Coolers

Flat fins on all coolers reduce clogging, making it easier to remove debris. The main cooling fan and air conditioner condenser are both hinged for easier cleaning.

Remote Greasing Blocks

For those hard to reach locations, greasing blocks have been provided to reduce maintenance time.

Handrails and Steps

Large handrails and steps assist the operator in climbing on and off the machine.

New LED Rear Lights

Standard Light Emitting Diode (LED) rear lights replace the standard lights, for increased visibility on the job site, higher durability and longer life.



Versatility

A wide variety of optional factory-installed attachments are available to enhance performance and improve job site management.



Tool Control

The integrated Tool Control system allows the operator to select up to 10 preset combinations. This eliminates the need to reset the hydraulic parameters each time a tool is changed. Individual flow and pressure can be programmed easily as well as one-way/two-way hydraulic functions. Each of the ten-programmed tools can even be given a specific name. The unique Cat proportional sliding switches and optional auxiliary pedal provide modulation to the tool to make precision work easy.

Joystick Steering

The unique joystick steering option enables an operator to reposition the machine while traveling in first gear by the use of the slider switch on the right joystick. This enables the operator to keep both hands on the joysticks while simultaneously moving the implements and traveling. The operator can do more precise work faster with increased safety around the machine.

Control Settings

There are 2 selectable control settings and one automatic travel setting. The operator can choose the best power setting for both engine and hydraulic power versus fuel efficiency.

- Economy Mode – used for lifting, pipe setting, grading, slope finishing and precise work while reducing fuel consumption.
- Power Mode – used for normal truck loading and digging applications, trenching or hammer use.
- Travel Mode – automatically set when the travel pedal is actuated. It provides maximum speed and drawbar pull.

Product Link

Product Link can assist with Fleet Management to keep track of hours, location, security and product health. The machine is prewired to accept Product Link systems to be installed in the field. Product Link is also available as a factory installed attachment.

Machine Security

An optional Machine Security System is available from the factory. This system controls who can operate the machine when, and utilizes specific keys to prevent unauthorized machine use.

Ride Control

New for the D Series, the ride control system improves operator comfort and allows the machine to travel faster over rough terrain with improved ride quality for the operator. The ride control system features accumulators acting as shock absorbers to dampen the front part motion. Ride control can be activated through a button located on the soft switch panel in the cab.



M318D Wheel Excavator Specifications

Engine

Engine Model	Cat® C6.6 with ACERT™ Technology
Ratings	1,800 rpm
Gross Power	130 kW (177 hp)
Net Power	
ISO 9249	124 kW (169 hp)
80/1269/EEC	124 kW (169 hp)
Bore	105 mm
Stroke	127 mm
Displacement	6.6 L
Cylinders	6
Maximum Torque at 1,400 rpm	805 N·m
<ul style="list-style-type: none"> • All engine horsepower (hp) are metric including front page. • EU Stage IIIA compliant. • Full engine net power up to 3000 m altitude. 	

Hydraulic System

Tank Capacity	170 L
System	255 L
Maximum Pressure	
Implement Circuit	
Normal	350 bar
Heavy Lift	375 bar
Travel Circuit	350 bar
Auxiliary Circuit	
High Pressure	350 bar
Medium Pressure	185 bar
Swing Mechanism	310 bar
Maximum Flow	
Implement/Travel Circuit	290 L/min
Auxiliary Circuit	
High Pressure	250 L/min
Medium Pressure	50 L/min
Swing Mechanism	112 L/min

Weights

VA Boom*	
Rear Dozer Only	17 850 kg
Rear Dozer, Front Outriggers	18 900 kg
Front and Rear Outriggers	19 100 kg
One-Piece Boom*	
Rear Dozer Only	17 350 kg
Rear Dozer, Front Outriggers	18 350 kg
Front and Rear Outriggers	18 550 kg
Sticks	
Short (2200 mm)	550 kg
Medium (2500 mm)	580 kg
Long (2800 mm)	600 kg
Industrial (3300 mm)	520 kg
Dozer Blade	740 kg
Outriggers	1030 kg
Counterweight	4000 kg
<ul style="list-style-type: none"> • Machine weight with medium stick, 4000 kg counterweight, with operator and full fuel tank, without work tool. Weight varies depending on configuration. 	

Transmission

Forward/Reverse	
1st Gear	8 km/h
2nd Gear	37 km/h
Creeper Speed	
1st Gear	3 km/h
2nd Gear	13 km/h
Drawbar Pull	99 kN
Maximum Gradeability	60%

Swing Mechanism

Swing Speed	10.5 rpm
Swing Torque	48 kN·m

Tires

Standard	
<ul style="list-style-type: none"> • 10.00-20 (dual pneumatic) 	
Optional	
<ul style="list-style-type: none"> • 11.00-20 (dual pneumatic) • 18 R 19.5 XF (single pneumatic) • 10.00-20 (dual solid rubber) 	

Undercarriage

Ground Clearance	370 mm
Maximum Steering Angle	35°
Oscillation Axle Angle	± 9°
Minimum Turning Radius	
Standard Axle	
Outside of Tire	6400 mm
End of VA Boom	7000 mm
End of One-Piece Boom	8300 mm
Wide Axle	
Outside of Tire	6500 mm
End of VA Boom	7100 mm
End of One-Piece Boom	8500 mm

Service Refill Capacities

Fuel Tank	385 L
Cooling	36 L
Engine Crankcase	15 L
Rear Axle Housing (differential)	14 L
Front Steering Axle (differential)	10.5 L
Final Drive	2.5 L
Powershift Transmission	2.5 L

Sound Levels

Exterior Sound

- The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 103 dB(A).

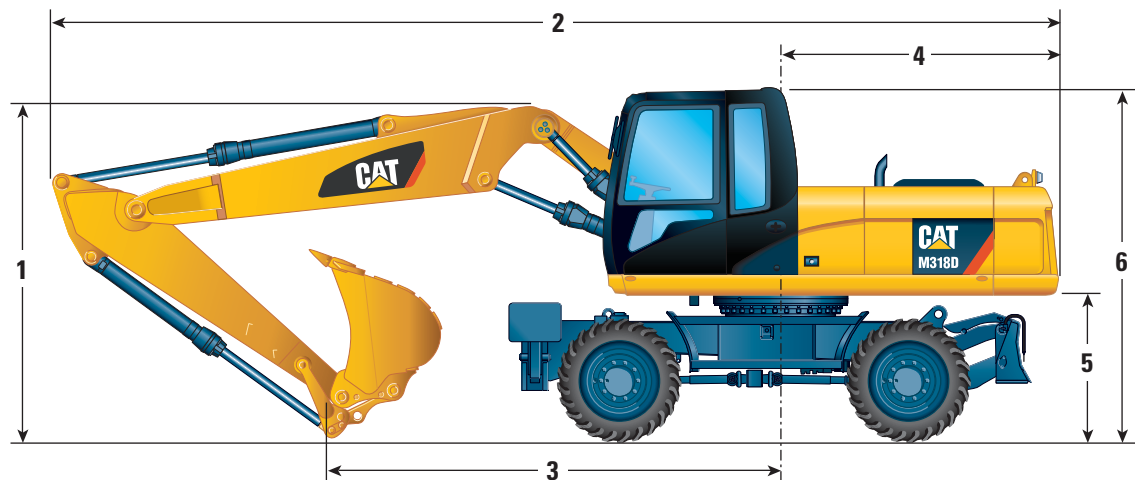
Cab/ROPS/FOGS

- Cat cab with integrated Roll Over Protective Structure (ROPS) meets ISO 12117-2:2008 criteria.
- Cab with Falling Object Guard Structure (FOGS) meets ISO 10262.

M318D Wheel Excavator Specifications

Dimensions

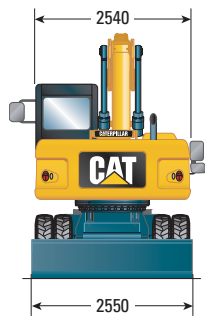
All dimensions are approximate.



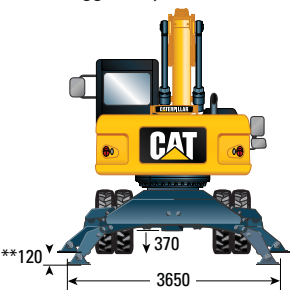
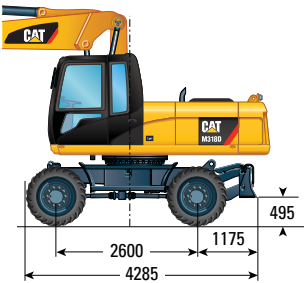
		VA Boom				One-Piece Boom			
Stick Length	mm	2200	2500	2800	*3300	2200	2500	2800	*3300
1 Shipping Height	mm	3170	3170	3300	3330	3190	3210	3330	3290
2 Shipping Length	mm	8870	8550	8820	8850	8870	8960	8950	9000
3 Support Point	mm	3920	3650	3510	3270	3810	3490	3310	3080
4 Tail Swing Radius	mm	2565				2565			
5 Counterweight Clearance	mm	1275				1275			
6 Cab Height	mm	3170				3170			
With 1200 mm Fixed Cab Riser	mm	4370				4370			
Overall Machine Width	mm	2550				2550			
Wide Gauge Axle	mm	2750				2750			

* Industrial stick

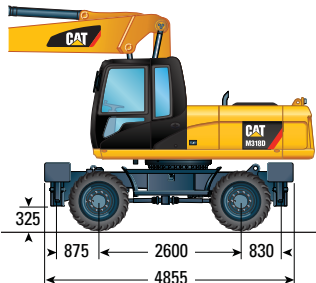
** Maximum tire clearance with outrigger fully down



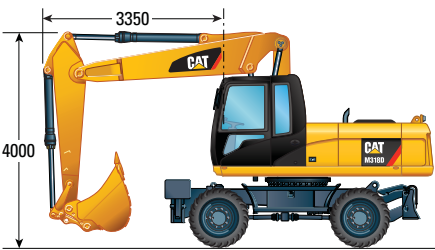
Undercarriage with dozer only



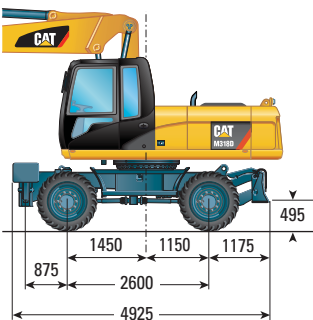
Undercarriage with 2 sets of outriggers



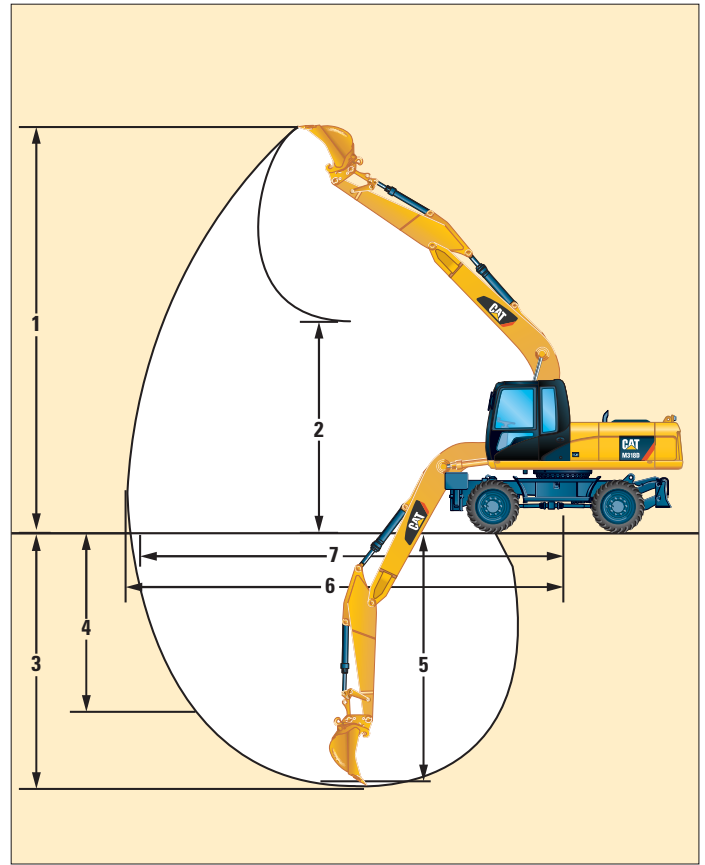
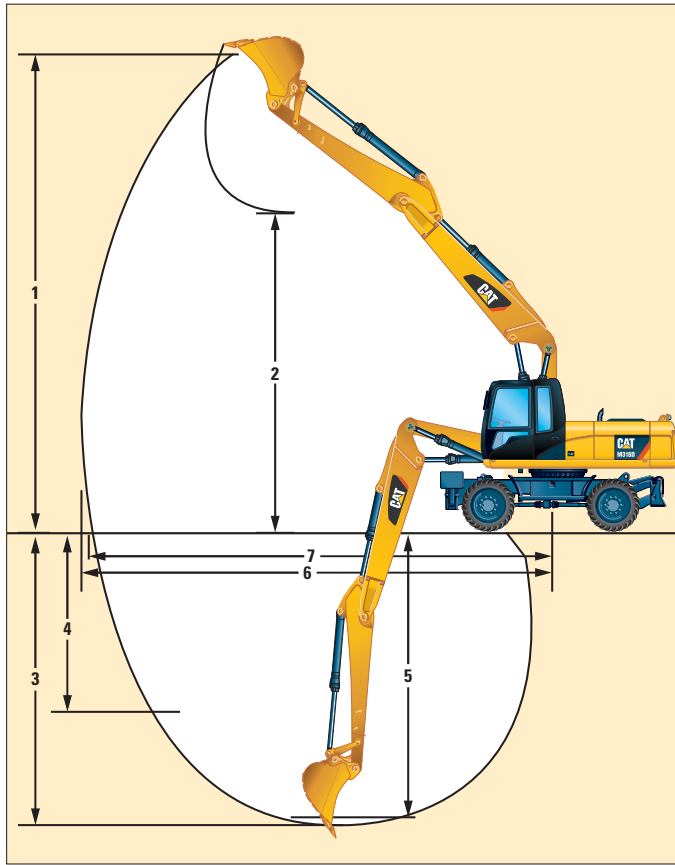
Roading position with 2400 mm stick



Undercarriage with 1 set of outriggers and dozer



Working Ranges



		VA Boom				One-Piece Boom			
		2200	2500	2800	*3300	2200	2500	2800	*3300
Stick Length	mm								
1 Digging Height	mm	9710	10 000	10 210	8620	8760	9010	9170	7560
2 Dump Height	mm	6700	6970	7190	3550	5900	6110	6270	3140
3 Digging Depth	mm	5750	6060	6360	5320	5700	6000	6300	5250
4 Vertical Wall Digging Depth	mm	3220	3680	3960	–	2880	3340	3620	–
5 Depth 2.5 m Straight Clean-Up	mm	5538	5865	6179	–	5488	5805	6119	–
6 Reach	mm	9160	9470	9760	8490	9180	9490	9770	8470
7 Reach at Ground Level	mm	8970	9300	9590	8290	9000	9320	9600	8270
Bucket Forces (ISO 6015)	kN	126	126	126	–	126	126	126	–
Stick Forces (ISO 6015)	kN	102	91	85	–	102	91	85	–

* Industrial stick has no bucket linkage. All dimensions refer to sticknose.

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1599 mm.

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1405 mm.

M318D Wheel Excavator Specifications

Bucket Specifications

Contact your Cat dealer for special bucket requirements.

Pin-On Buckets					Variable Adjustable Boom 5260 mm												One-Piece Boom 5350 mm											
Stick Length					2200 mm				2500 mm				2800 mm				2200 mm				2500 mm				2800 mm			
	Width	Weight*	Capacity (ISO)	Adapters	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized
	mm	kg	m ³																									
Excavation	600	478	0.38	3																								
	750	507	0.52	3																								
	900	568	0.65	4																								
	1000	602	0.75	4																								
	1100	634	0.84	4																								
	1200	678	0.94	5																								
	1300	710	1.03	5																								
	1400	744	1.13	5																								
Extreme Excavation	1200	712	0.94	5																								
	1300	745	1.03	5																								
Excavation (leveling)	600	514	0.41	3																								
	750	544	0.56	3																								
	800	582	0.61	4																								
	900	611	0.70	4																								
	1000	651	0.82	4																								
	1100	687	0.92	4																								
	1200	740	1.04	5																								
	1300	777	1.14	5																								
	1400	813	1.26	5																								
Extreme Excavation (leveling)	1200	772	1.04	5																								
	1300	809	1.14	5																								
Ditch Cleaning	1800	630	0.90																									
	2000	685	1.00																									
Tiltable Ditch Cleaning	1800	875	0.75																									
	2000	912	0.84																									

* Bucket weight includes Ground Engaging Tools

Maximum material density 1800 kg/m³

Maximum material density 1500 kg/m³

Maximum material density 1200 kg/m³

Not recommended

Bucket Specifications

Contact your Cat dealer for special bucket requirements.

CW Quick Coupler Buckets					Variable Adjustable Boom 5260 mm												One-Piece Boom 5350 mm											
Stick Length					2200 mm				2500 mm				2800 mm				2200 mm				2500 mm				2800 mm			
	Width	Weight*	Capacity (ISO)	Adapters	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized
	mm	kg	m³																									
Excavation	600	465	0.38	3																								
	750	501	0.52	3																								
	900	530	0.65	4																								
	1000	564	0.75	4																								
	1100	596	0.84	4																								
	1200	640	0.94	5																								
	1300	671	1.03	5																								
	1400	703	1.13	5																								
Extreme Excavation	1200	674	0.94	5																								
	1300	707	1.03	5																								
Excavation (leveling)	600	498	0.41	3																								
	750	547	0.56	3																								
	800	526	0.61	4																								
	900	575	0.70	4																								
	1000	614	0.82	4																								
	1100	651	0.92	4																								
	1200	704	1.04	5																								
	1300	741	1.14	5																								
	1400	777	1.26	5																								
Extreme Excavation (leveling)	600	523	0.41	3																								
	800	555	0.61	4																								
	1000	644	0.82	4																								
	1200	736	1.04	5																								
	1300	773	1.26	5																								
Ditch Cleaning	1800	592	0.90																									
	2000	645	1.00																									
Tiltable Ditch Cleaning	1800	835	0.75																									
	2000	875	0.84																									

* Bucket weight includes Ground Engaging Tools

Maximum material
density 1800 kg/m³

Maximum material
density 1500 kg/m³

Maximum material
density 1200 kg/m³

Not recommended

M318D Wheel Excavator Specifications

Work Tools Matching Guide

When choosing between various work tool models that can be installed onto the same machine configuration, consider work tool application, productivity requirements, and durability. Refer to work tool specifications for application recommendations and productivity information.

			Variable Adjustable Boom 5260 mm												One-Piece Boom 5350 mm											
			Dozer lowered				2 sets of stabilizers lowered				Dozer and stabilizer lowered				Dozer lowered				2 sets of stabilizers lowered				Dozer and stabilizer lowered			
Without Quick Coupler			Stick Length (mm)																							
Hammers	H115 S, H120C S, H130 S																									
Multiprocessors	MP15	CC, CR																								
	MP15	PP, PS																								
	MP15	S																								
	MP20	CC, CR																								
	MP20	PP, PS, S																								
Hydraulic Shears (* boom mounted)	S320B																									
	S320B*																									
	S325B*																									
Multi-Grapples	G315B	D																								
		R																								
	G320B	D, R																								
Crushers	P315																									
	P325																									
Compactor	CVP75																									
Orange Peel Grapples	GSH15B 5 tines	400																								
		500																								
		600																								
		800																								
	GSH15B 4 tines	400																								
		500																								
		600																								
		800																								
	GSH20B 5 tines	600																								
		800																								
		1000																								
	GSH20B 4 tines	600																								
800																										
1000																										
Pulverizers	P215																									
	P225																									
With Quick Coupler (CW-20, CW-20S)																										
Hammers	H115 S, H120C S, H130 S																									
Multiprocessors	MP15	CC, CR																								
	MP15	PP, PS																								
	MP15	S																								
	MP20	CC, CR																								
	MP20	PP, PS, S																								
Hydraulic Shear	S320																									
Multi-Grapples	G315B	D																								
	G315B	R																								
	G320B	D, R																								
Compactor	CVP75																									
Crushers	P315																									
	P325																									
Pulverizers	P215																									
	P225																									

360° Working RangeOver the front only

Maximum material density 3000 kg/m³Maximum material density 1800 kg/m³Maximum material density 1200 kg/m³

Lift Capacities – Variable Adjustable Boom (5260 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.



Load at maximum reach (sticknose/bucket pin)



Load over front



Load over rear



Load over side



Load point height

**Short
Stick
2200 mm**

		Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						m
6.0 m		Rear dozer up				*6700	5800	5050	5050	3600	3150				*4350	3300	2900	6.25
		Rear dozer down					*6700	5750		*5750	3600					*4350	3300	
		Dozer and stabilizer down				*6700	*6700	*6700	*5750	5300						*4350	*4350	
		2 sets of stabilizers down				*6700	*6700	*6700	*5750	*5750						*4350	*4350	
4.5 m		Wide axle rear dozer up					5800	5500		3600	3450					3350	3200	7.07
		Rear dozer up				*7650	5500	4800	4950	3500	3050				3800	2650	2300	
		Rear dozer down					*7650	5500		*6350	3500					*4150	2650	
		Dozer and stabilizer down				*7650	*7650	*7650	*6350	5200						*4150	3950	
3.0 m		2 sets of stabilizers down				*7650	*7650	*7650	*6350	6050						*4150	*4150	7.50
		Wide axle rear dozer up					5550	5250		3500	3350					2650	2550	
		Rear dozer up				7400	5050	4350	4800	3350	2900				3400	2350	2050	
		Rear dozer down					*9100	5050		*6900	3350					*4200	2350	
1.5 m		Dozer and stabilizer down					*9100	7800		*6900	5000					*4200	3550	7.59
		2 sets of stabilizers down					*9100	*9100	*6900	5850						*4200	4100	
		Wide axle rear dozer up					5100	4800		3350	3200					2350	2250	
		Rear dozer up				6950	4700	4000	4600	3150	2700	3300	2300	2000	3250	2250	1950	
0.0 m		Rear dozer down					*10 150	4650		7150	3150					*4500	2250	7.38
		Dozer and stabilizer down					*10 150	7350		7250	4800					*4500	3400	
		2 sets of stabilizers down					*10 150	8750	*7400	*7400	5650	*5600	5250	4050	*4500	*4500	3950	
		Wide axle rear dozer up					4700	4400		3150	3000		2300	2200		2250	2150	
-1.5 m		Rear dozer up				6750	4500	3800	4450	3050	2600				3350	2300	2000	6.81
		Rear dozer down					*10 150	4450		7000	3050					*5050	2300	
		Dozer and stabilizer down					*10 150	7150		7100	4700					*5050	3500	
		2 sets of stabilizers down					*10 150	8500	*7450	7250	5500					*5050	4100	
-3.0 m		Wide axle rear dozer up					4500	4250		3050	2900					2300	2200	5.80
		Rear dozer up	*10 300	8500	6950	6750	4450	3800	4450	3000	2600				3750	2550	2200	
		Rear dozer down		*10 300	8350		*9200	4450		*6800	3000					*5550	2550	
		Dozer and stabilizer down		*10 300	*10 300		*9200	7100		*6800	4650					*5550	3950	
-4.5 m		2 sets of stabilizers down		*10 300	*10 300		*9200	8500	*6800	*6800	5450					*5550	4600	5.80
		Wide axle rear dozer up			8500			4500		3000	2850					2550	2450	
		Rear dozer up				6850	4600	3900							4750	3250	2800	
		Rear dozer down					*7200	4550								*5000	3250	
-6.0 m		Dozer and stabilizer down					*7200	*7200								*5000	*5000	5.80
		2 sets of stabilizers down					*7200	*7200								*5000	*5000	
		Wide axle rear dozer up					4600	4300								3250	3100	

**Medium
Stick
2500 mm**

		Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						m
6.0 m		Rear dozer up				*6250	5850	5100	5100	3650	3200				*3300	3050	2650	6.63
		Rear dozer down					*6250	5850		*5550	3650					*3300	3050	
		Dozer and stabilizer down				*6250	*6250	*6250	*5550	5350						*3300	*3300	
		2 sets of stabilizers down				*6250	*6250	*6250	*5550	*5550						*3300	*3300	
4.5 m		Wide axle rear dozer up					5900	5600		3650	3500					3050	2900	7.41
		Rear dozer up				*7250	5600	4850	5000	3550	3100				*3150	2450	2150	
		Rear dozer down					*7250	5550		*6150	3550					*3150	2500	
		Dozer and stabilizer down				*7250	*7250	*7250	*6150	5250						*3150	*3150	
3.0 m		2 sets of stabilizers down				*7250	*7250	*7250	*6150	6050						*3150	*3150	7.82
		Wide axle rear dozer up					5600	5300		3550	3400					2500	2350	
		Rear dozer up				7500	5150	4450	4800	3350	2950	3400	2350	2050	3200	2200	1900	
		Rear dozer down					*8800	5100		*6750	3350					*3200	2200	
1.5 m		Dozer and stabilizer down					*8800	7900		*6750	5050					*3200	*3200	7.91
		2 sets of stabilizers down					*8800	*8800	*6750	5850		*5300	5250	3600		*3200	*3200	
		Wide axle rear dozer up					5150	4900		3400	3200		2400	2250		2200	2100	
		Rear dozer up				7000	4750	4050	4600	3200	2750	3350	2300	2000	3050	2100	1800	7.70
0.0 m		Rear dozer down					*10 000	4700		7150	3150					*3350	2100	
		Dozer and stabilizer down					*10 000	7400		7250	4850					*3350	3250	
		2 sets of stabilizers down					*10 000	8800	*7300	*7300	5650	*5850	5250	4050	*3350	*3350	*3350	
		Wide axle rear dozer up					4750	4500		3200	3050		2300	2200		2100	2000	
-1.5 m		Rear dozer up				6800	4500	3850	4450	3050	2600	3250	2250	1900	3150	2150	1850	7.16
		Rear dozer down					*10 250	4500		7000	3050					*3750	2150	
		Dozer and stabilizer down					*10 250	7150		7100	4700					*3750	3300	
		2 sets of stabilizers down					*10 250	8550	*7450	7250	5500	*5700	5200	4000	*3750	*3750	*3750	
-3.0 m		Wide axle rear dozer up					4500	4250		3050	2900		2250	2150		2150	2050	6.21
		Rear dozer up	*9500	8400	6900	6700	4450	3800	4400	3000	2550				3450	2400	2050	
		Rear dozer down		*9500	8300		*9500	4450		6950	3000					*4400	2400	
		Dozer and stabilizer down		*9500	*9500		*9500	7100		*7000	4650					*4400	3650	
-4.5 m		2 sets of stabilizers down		*9500	*9500		*9500	8450	*7000	*7000	5450					*4400	4250	6.21
		Wide axle rear dozer up			8450			4450		3000	2850					2400	2250	
		Rear dozer up				6800	4550	3850	4500	3050	2650				4300	2950	2550	
		Rear dozer down					*7700	4500		*5350	3050					*4900	2950	
-6.0 m		Dozer and stabilizer down					*7700	7200		*5350	4700					*4900	4500	6.21
		2 sets of stabilizers down					*7700	*7700	*5350	*5350						*4900	*4900	
		Wide axle rear dozer up					4550	4300		3050	2900					2950	2800	

*Limited by hydraulic rather than tipping load.





















Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.


















M318D Wheel Excavator Specifications

Lift Capacities – Variable Adjustable Boom (5260 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

	 Load at maximum reach (sticknose/bucket pin)	 Load over front	 Load over rear	 Load over side	 Load point height													
Long Stick 2800 mm		Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						
																m		
6.0 m	Rear dozer up							5200	3700	3250				*2900	2800	2450	6.98	
	Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							*5200	*5200	*5200				*2900	*2900	*2900		
4.5 m	Rear dozer up				*6650	5700	4950	5050	3600	3150	3500	2450	2150	*2800	2350	2050	7.72	
	Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*6650	*6650	*6650	*5900	*5900	*5900	*3950	*3950	*3950	*2800	*2800	*2800		
3.0 m	Rear dozer up				7600	5250	4500	4850	3400	2950	3450	2400	2100	*2800	2100	1800	8.10	
	Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*8450	*8450	*8450	*6550	*6550	*6550	*5550	*5550	*5550	*2800	*2800	*2800		
1.5 m	Rear dozer up				7100	4800	4100	4650	3200	2750	3350	2300	2000	2900	2000	1750	8.19	
	Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*9800	*9800	*9800	*7200	*7200	*7200	*5800	*5800	*5800	*2950	*2950	*2950		
0.0 m	Rear dozer up				6800	4550	3850	4500	3050	2600	3250	2250	1950	3000	2050	1750	7.99	
	Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*10 250	*10 250	*10 250	*7450	*7450	*7450	*5800	*5800	*5800	*3250	*3250	*3250		
-1.5 m	Rear dozer up	*9050	8350	6800	6700	4450	3750	4400	3000	2550				3250	2250	1900	7.48	
	Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9050	*9050	*9050	*9700	*9700	*9700	*7150	*7150	*7150				*3800	*3800	*3800		
-3.0 m	Rear dozer up	*11 150	8500	6950	6750	4500	3800	4450	3000	2600				3950	2700	2300	6.58	
	Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*11 150	*11 150	*11 150	*8200	*8200	*8200	*5850	*5850	*5850				*4850	*4850	*4850		

Industrial Stick 3300 mm

	Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m							
																	m	
6.0 m	Rear dozer up							*4950	4050	3600				*3150	2900	2600	7.31	
	Rear dozer down								*4950	4000					*3150	2900		
	Dozer and stabilizer down								*4950	*4950					*3150	*3150		
	2 sets of stabilizers down							*4950	*4950	*4950					*3150	*3150		
4.5 m	Wide axle rear dozer up							4050	3850						2950	2800	8.02	
	Rear dozer up				*5900	*5900	5300	5400	3950	3500	3850	2800	2450	*3100	2500	2200		
	Rear dozer down					*5900	*5900		*5800	3900		*4500	2800		*3100	2500		
	Dozer and stabilizer down					*5900	*5900		*5800	5650		*4500	4000		*3100	*3100		
3.0 m	2 sets of stabilizers down					*5900	*5900	*5800	*5800	*5800	*4500	*4500	*4500	*3100	*3100	*3100	8.40	
	Wide axle rear dozer up					*5900	5800		3950	3750		2800	2700		2500	2400		
	Rear dozer up				8000	5650	4950	5200	3750	3300	3750	2700	2400	3150	2250	2000		
	Rear dozer down					*8150	5650		*6550	3750		5450	2700		*3200	2250		
1.5 m	Dozer and stabilizer down					*8150	*8150		*6550	5450		5550	3900		*3200	*3200	8.48	
	2 sets of stabilizers down					*8150	*8150	*6550	*6550	6250	*5650	*5650	4500	*3200	*3200	*3200		
	Wide axle rear dozer up					5700	5400		3750	3600		2700	2600		2250	2200		
	Rear dozer up				7550	5200	4500	4950	3550	3100	3650	2600	2300	3050	2200	1900		
0.0 m	Rear dozer down					*9800	5200		*7300	3550		5350	2600		*3400	2200	8.29	
	Dozer and stabilizer down					*9800	7950		*7300	5200		5450	3800		*3400	3200		
	2 sets of stabilizers down					*9800	9300	*7300	*7300	6000	*6000	5550	4350	*3400	*3400	*3400		
	Wide axle rear dozer up					5250	4950		3550	3400		2600	2500		2200	2100		
-1.5 m	Rear dozer up	*7000	*7000	*7000	7200	4900	4200	4800	3350	2950	3550	2500	2200	3100	2200	1950	8.29	
	Rear dozer down					*10 600	4900		7350	3350		5250	2500		*3800	2200		
	Dozer and stabilizer down					*10 600	7600		7450	5050		5350	3700		*3800	3250		
	2 sets of stabilizers down	*7000	*7000	*7000	*10 600	*10 600	8950	*7750	7600	5850	*6150	5450	4250	*3800	*3800	3750		
-3.0 m	Wide axle rear dozer up					4950	4650		3400	3200		2500	2400		2200	2100	7.79	
	Rear dozer up	*9800	8750	7200	7050	4800	4100	4700	3300	2850	3500	2450	2150	3350	2350	2050		
	Rear dozer down		*9800	8600		*10 400	4750		7250	3250		5200	2450		*4500	2350		
	Dozer and stabilizer down		*9800	*9800		*10 400	7450		7350	4950		5300	3650		*4500	3500		
-3.0 m	2 sets of stabilizers down	*9800	*9800	*9800	*10 400	*10 400	8800	*7650	7500	5750	*5850	5400	4200	*4500	*4500	4000	6.93	
	Wide axle rear dozer up		8750	8100		4800	4550		3300	3150		2450	2350		2350	2250		
	Rear dozer up	*12 950	8850	7250	7050	4800	4100	4700	3250	2850				3900	2750	2400		
	Rear dozer down		*12 950	8700		*9200	7450		*6800	3250					*5450	2750		
-3.0 m	Dozer and stabilizer down		*12 950	*12 950		*9200	7450		*6800	4900					*5450	4100	6.93	
	2 sets of stabilizers down		*12 950	*12 950	*9200	*9200	8800	*6800	*6800	5700					*5450	4700		
	Wide axle rear dozer up		8850	8200		4800	4550		3250	3100					2750	2600		

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Lift Capacities – One-Piece Boom (5350 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.



Load at maximum reach (sticknose/bucket pin)



Load over front



Load over rear



Load over side



Load point height

**Short
Stick
2200 mm**

		Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						m
6.0 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							5000	3600	3150				*4450	3300	2900	6.29
										*5850	3600					*4450	3300	
										*5850	5250					*4450	3300	
									*5850	*5850	*5850					*4450	3300	
										3600	3450						3150	
4.5 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*7450	5450	4750	4950	3500	3050				3750	2650	2350	7.10
							*7450	5450		*6250	3500					*4350	2650	
							*7450	*7450		*6250	5150					*4350	3950	
							*7450	*7450	*6250	*6250	5950					*4350	*4350	
							5450	3500		3350	3350					2650	2550	
3.0 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7300	5050	4350	4750	3350	2900	3400	2350	2050	3350	2350	2050	7.52
							*9050	5000		*6850	3350					*4500	2350	
							*9050	7700		*6850	5000		*4700	3550		*4500	3550	
							*9050	*9050	*6850	*6850	5800	*4700	4100		*4500	*4500	4100	
							5050	4800		3350	3200		2350	2250		2350	2250	
1.5 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6900	4700	4000	4550	3150	2750	3300	2300	2000	3250	2250	1950	7.62
							*10 200	4650		7050	3150		4950	2300		*4850	2250	
							*10 200	7300	*7400	7150	4800		5100	3500		*4850	3400	
							*10 200	8650		7300	5600	*5900	5200	4050	*4850	*4850	3950	
							4700	4450		3150	3000		2300	2200		2250	2150	
0.0 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6750	4500	3850	4450	3050	2650				3350	2300	2000	7.40
							*10 300	4500		6900	3050					5000	2300	
							*10 300	7150		7050	4700					5150	3500	
							*10 300	8450	*7550	7200	5450				*5500	5250	4050	
							4550	4300		3050	2900					2300	2200	
-1.5 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*10 150	8550	7000	6750	4500	3850	4400	3000	2600				3700	2550	2200	6.84
				*10 150	8400		*9500	4500		6900	3050					5650	2550	
				*10 150	*10 150		*9500	7100		7000	4650					5750	3900	
				*10 150	*10 150	*9500	*9500	8450	*7050	*7050	5450				*5800	*5800	4550	
				8550	7900		4500	4250		3050	2900					2550	2450	
-3.0 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*10 050	8700	7150	6850	4600	3900							4700	3250	2800	5.83
				*10 050	8550		*7700	4550							*5550	*5550	3250	
				*10 050	*10 050		*7700	7200								*5550	4950	
				*10 050	*10 050	*7700	*7700	*7700							*5550	*5550	3100	
				8700	8050		4600	4350								3250	3100	

**Medium
Stick
2500 mm**

		Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						m
6.0 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							5050	3650	3200				*3450	3000	2650	6.66
										*5550	3650					*3450	3000	
										*5550	5300					*3450	*3450	
									*5550	*5550	*5550					*3450	*3450	
										3650	3500					3050	2900	
4.5 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							4950	3550	3100				*3350	2500	2150	7.43
										*6000	3550					*3350	2500	
										*6000	5200					*3350	*3350	
									*6000	*6000	*6000					*3350	*3350	
										3550	3400					2500	2400	
3.0 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7400	5100	4400	4800	3350	2950	3400	2400	2100	3150	2200	1950	7.84
							*8700	5100		*6650	3350		5050	2400		*3450	2200	
							*8700	7800		*6650	5000		5200	3550		*3450	3350	
							*8700	*8700	*6650	*6650	5800	*5500	5300	4100	*3450	*3450	*3450	
							5100	4850		3350	3200		2400	2300		2200	2150	
1.5 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7000	4750	4050	4600	3200	2750	3300	2300	2000	3050	2100	1850	7.93
							*10 000	4700		7100	3200		4950	2300		*3650	2150	
							*10 000	7350		7200	4800		5100	3500		*3650	3200	
							*10 000	8700	*7300	*7300	5600	*5850	5200	4050	*3650	*3650	*3650	
							4750	4500		3200	3050		2300	2200		2100	2050	
0.0 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6750	4550	3850	4450	3050	2650	3250	2250	1950	3150	2150	1850	7.72
							*10 350	4500		6950	3050		4900	2250		*4100	2150	
							*10 350	7150		7050	4700		5050	3400		*4100	3300	
							*10 350	8500	*7550	7200	5450	*5850	5150	3950	*4100	*4100	3800	
							4550	4300		3050	2900		2250	2150		2150	2050	
-1.5 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9400	8450	6950	6700	4500	3800	4400	3000	2600				3450	2400	2050	7.19
				*9400	8350		*9750	4450		6850	3000					*5000	2400	
				*9400	*9400		*9750	7100		7000	4650					*5000	3600	
				*9400	*9400	*9750	*9750	8450	*7200	7150	5400				*5000	*5000	4200	
				8500	7850		4500	4250		3000	2850					2400	2250	
-3.0 m		Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*11 000	8650	7100	6800	4550	3900	4450	3050	2650				4250	2900	2550	6.24
				*11 000	8500		*8200	4550		*5800	3050					*5350	2900	
				*11 000	*11 000		*8200	7150		*5800	4700					*5350	4450	
				*11 000	*11 000	*8200	*8200	*8200	*5800	*8200	5500				*5350	*5350	5200	
				8650	8000		4550	4300		3050	2950					2950	2800	

*Limited by hydraulic rather than tipping load.






















Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.






















M318D Wheel Excavator Specifications

Lift Capacities – One-Piece Boom (5350 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

		Load at maximum reach (sticknose/bucket pin)		Load over front		Load over rear		Load over side		Load point height								
Long Stick 2800 mm		Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						
																	m	
6.0 m	Rear dozer up							5150	3700	3250				*3050	2800	2500	7.00	
	Rear dozer down								*5200	3700					*3050	2800		
	Dozer and stabilizer down								*5200	*5200					*3050	*3050		
	2 sets of stabilizers down								*5200	*5200					*3050	*3050		
	Wide axle rear dozer up								3700	3550					2800	2700		
4.5 m	Rear dozer up							5000	3600	3150	3500	2500	2150	*2950	2350	2050	7.73	
	Rear dozer down								*5750	3600		*4050	2500		*2950	2350		
	Dozer and stabilizer down								*5750	5250		*4050	3650		*2950	*2950		
	2 sets of stabilizers down								*5750	*5750	*4050	*4050	*4050	*2950	*2950	*2950		
	Wide axle rear dozer up								3600	3450		2500	2400		2350	2250		
3.0 m	Rear dozer up					7500	5200	4500	4800	3400	2950	3450	2400	2100	3000	2100	1850	8.12
	Rear dozer down						*8350	5150		*6450	3400	5100	2400		*3000	2100		
	Dozer and stabilizer down						*8350	7900		*6450	5050	5200	3600		*3000	*3000		
	2 sets of stabilizers down						*8350	*8350	*6450	*6450	5850	*5550	5350	4150	*3000	*3000		
	Wide axle rear dozer up						5200	4950			3400	3250	2400	2300	*3000	2100	2000	
1.5 m	Rear dozer up					7050	4800	4100	4600	3200	2800	3350	2300	2000	2900	2000	1750	8.21
	Rear dozer down						*9800	4750		*7150	3200	5000	2350		*3200	2050		
	Dozer and stabilizer down						*9800	7450		*7150	4850	5100	3500		*3200	3050		
	2 sets of stabilizers down						*9800	8800	*7150	*7150	5650	*5800	5250	4050	*3200	*3200		
	Wide axle rear dozer up						4800	4550			3200	3050	2350	2200	2000	1950		
0.0 m	Rear dozer up					6800	4550	3900	4450	3050	2650	3250	2250	1950	3000	2050	1800	8.01
	Rear dozer down						*10 350	4550		6950	3050	4900	2250		*3600	2050		
	Dozer and stabilizer down						*10 350	7150		7050	4700	5050	3450		*3600	3100		
	2 sets of stabilizers down						*10 350	8500	*7500	7200	5500	*5850	5150	4000	*3600	*3600		
	Wide axle rear dozer up						4550	4300		3050	2950		2250	2150		2050	1950	
-1.5 m	Rear dozer up	*9000	8400	6900	6700	4500	3800	4400	3000	2600				3250	2250	1950	7.50	
	Rear dozer down		*9000	8300		*9950	4450		6850	3000					*4250	2250		
	Dozer and stabilizer down		*9000	*9000		*9950	7100		7000	4650					*4250	3400		
	2 sets of stabilizers down		*9000	*9000		*9950	8400	*7300	7150	5400					*4250	3950		
	Wide axle rear dozer up		8450	7800		4500	4250		3000	2850					2250	2150		
-3.0 m	Rear dozer up	*11 850	8550	7050	6750	4500	3850	4450	3050	2600				3900	2700	2350	6.60	
	Rear dozer down		*11 850	8400		*8600	4500		*6250	3050					*5250	2700		
	Dozer and stabilizer down		*11 850	*11 850		*8600	7150		*6250	4650					*5250	4100		
	2 sets of stabilizers down		*11 850	*11 850		*8600	8450	*6250	*6250	5450					*5250	4800		
	Wide axle rear dozer up		8550	7950		4550	4300		3050	2900					2700	2550		
-4.5 m	Rear dozer up					*5650	4700	4050							*4600	4000	3450	5.09
	Rear dozer down						*5650	4700							*4600	3950		
	Dozer and stabilizer down						*5650	*5650							*4600	*4600		
	2 sets of stabilizers down						*5650	*5650							*4600	*4600		
	Wide axle rear dozer up						4700	4450							4000	3800		

Industrial Stick 3300 mm

	Undercarriage configuration	 3.0 m			 4.5 m			 6.0 m			 7.5 m						
																	m
6.0 m	Rear dozer up													*3250	2950	2600	7.30
	Rear dozer down														*3250	2950	
	Dozer and stabilizer down														*3250	*3250	
	2 sets of stabilizers down														*3250	*3250	
	Wide axle rear dozer up													*3250	*3250	2850	
4.5 m	Rear dozer up							5350	3900	3450	3800	2800	2500	*3250	2500	2250	8.01
	Rear dozer down							*5650	3900					*4500	2800	*3250	
	Dozer and stabilizer down							*5650	5550					*4500	3950	*3250	
	2 sets of stabilizers down							*5650	*5650	*4500	*4500	*4500	*4500	*3250	*3250	*3250	
	Wide axle rear dozer up							3900	3750					*3250	2500	2400	
3.0 m	Rear dozer up				7900	5600	4900	5150	3750	3300	3750	2700	2400	3150	2300	2050	8.38
	Rear dozer down					*8000	5600		*6450	3700				*3350	2300	*3350	
	Dozer and stabilizer down					*8000	8000		*6450	5400				*3350	3300	*3350	
	2 sets of stabilizers down				*8000	*8000		*6450	6200	*5600	*5600	4450	*3350	*3350	*3350	*3350	
	Wide axle rear dozer up					5600	5350		3750	3600				2300	2200		
1.5 m	Rear dozer up				7500	5200	4500	4950	3550	3100	3650	2600	2300	3050	2200	1950	8.47
	Rear dozer down					*9750	5200		*7250	3550				*3600	2200	*3600	
	Dozer and stabilizer down					*9750	7850		*7250	5200				*3600	3200	*3600	
	2 sets of stabilizers down				*9750	*9750	9250	*7250	*7250	5950	*5950	5500	4350	*3600	*3600	*3600	
	Wide axle rear dozer up					5200	4950		3550	3400				2200	2100		
0.0 m	Rear dozer up	*6950	*6950	*6950	7200	4950	4250	4800	3400	2950	3550	2550	2250	3100	2200	1950	8.27
	Rear dozer down		*6950	*6950		*10 650	4900		7250	3400		5200	2550	*4100	2250	*4100	
	Dozer and stabilizer down		*6950	*6950		*10 650	7550		7400	5000		5300	3700	*4100	3250	*4100	
	2 sets of stabilizers down		*6950	*6950		*10 650	8900	*7750	7550	5800	*6200	5400	4250	*4100	3700	*4100	
	Wide axle rear dozer up		*6950	*6950		4950	4700		3400	3250		2550	2450	2250	2150		
-1.5 m	Rear dozer up	*9700	8800	7300	7050	4800	4150	4700	3300	2900	3500	2500	2200	3350	2400	2100	7.78
	Rear dozer down		*9700	8650		*10 550	4800		7150	3300		5150	2500	3350	4900	2400	
	Dozer and stabilizer down		*9700	*9700		*10 550	7450		7300	4900		5250	3650	*4950	3500	*4950	
	2 sets of stabilizers down		*9700	*9700		*10 550	8750	*7800	7450	5700	*6000	5350	4200	*4950	4000	*4950	
	Wide axle rear dozer up		8800	8150		4800	4550		3300	3150		2500	2400	2400	2300		
-3.0 m	Rear dozer up	*13 600	8850	7350	7050	4800	4150	4700	3300	2850				3900	2750	2400	6.92
	Rear dozer down		*13 600	8750		*9550	4800		*7050	3300					5800	2750	
	Dozer and stabilizer down		*13 600	*13 600		*9550	7400		*7050	4900					*5800	4050	
	2 sets of stabilizers down		*13 600	*13 600		*9550	8750	*7050	*7050	5700					*5800	4700	
	Wide axle rear dozer up		8900	8250		4800	4550		3300	3150					2750	2650	
-4.5 m	Rear dozer up	*10 050	9100	7550	7150	4900	4250							5350	3750	3300	5.50
	Rear dozer down		*10 050	8950		*7300	4900								*5650	3750	
	Dozer and stabilizer down		*10 050	*10 050		*7300	7300								*5650	5650	
	2 sets of stabilizers down		*10 050	*10 050		*7300	7300								*5650	*5650	
	Wide axle rear dozer up		9100	8450		4950	4650							*5650	3800	3600	

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M318D Wheel Excavator Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

Electrical

Alternator, 75 A

Lights

Boom working light

Cab interior light

Roading lights two front

Roading lights two LED modules rear

Rotating beacon on cab

Working lights, cab mounted
(front and rear)

Main shut-off switch

Maintenance free batteries

Signal/warning horn

Engine

Automatic engine speed control

Automatic starting aid

Cat C6.6 with ACERT Technology

EU Stage IIIA compliant

Fuel/water separator with level indicator

Hydraulics

Heavy lift mode

Load-sensing Plus hydraulic system

Manual work modes (economy, power)

Separate swing pump

Stick regeneration circuit

Operator Station

ROPS cab structure compliant with
2006/42/EC and tested according
to ISO 12117-2:2008

Adjustable armrests

Air conditioner, heater and defroster
with automatic climate control

Ash tray with cigarette lighter (24 volt)

Beverage cup/can holder

Bolt-on FOGS capability

Bottle holder

Bottom mounted parallel wiping system
that covers the upper and lower
windshield glass

Camera mounted on counterweight displays
through cab monitor

Coat hook

Floor mat, washable, with storage
compartment

Fully adjustable suspension seat

Instrument panel and gauges

Information and warning messages
in local language

Gauges for fuel level, engine coolant
and hydraulic oil temperature

Filters/fluids change interval

Indicators for headlights, turning signal,
low fuel, engine dial setting

Clock with 10-day backup battery

Laminated front windshield

Left side console, tiltable, with lock out
for all controls

Literature compartment behind seat

Literature holder in right console

Mobile phone holder

Parking brake

Positive filtered ventilation

Power supply, 12V-7A

Rear window, emergency exit

Retractable seat belt

Skylight

Sliding door windows

Steering column, tiltable

Storage area suitable for a lunch box

Sunshade for windshield and skylight

Undercarriage

Heavy-duty axles, advanced travel motor,
adjustable braking force

Oscillating front axle with remote greasing

Tires, 10.00-20 16 PR, dual

Tool boxes (right- and left-hand side)
in undercarriage

Two-piece drive shaft

Other Equipment

Automatic swing brake

Counterweight, 4000 kg

Mirrors, frame and cab

Product Link ready

Tool box in upperframe, lockable

M318D Wheel Excavator Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

Auxiliary Controls and Lines

Auxiliary boom and stick lines

Anti-drift valves for bucket, stick, VA boom and tool control/multi-function circuits

Basic control circuits:

Single action

One-way, high pressure circuit, for hammering application

Medium pressure

Two-way, medium pressure circuit, for rotating or tilting of work tools

Tool control/multi function

One/two-way high pressure for hammer application or opening and closing of a work tool

Programmable flow and pressure for up to 10 work tools – selection via monitor

Second high pressure

Additional two-way, high pressure circuit, for tools requiring a second high or medium pressure function

Quick coupler control

Cat BIO HYDO Advanced HEEST™ biodegradable hydraulic oil

Generator with valve and priority function

Lowering control devices for boom and stick

SmartBoom™

Front Linkage

Booms

One-piece boom, 5350 mm

VA boom (two piece), 5260 mm

Bucket linkage with diverter valve

Sticks

2200, 2500, 2800 mm

3300 mm industrial with drop nose

Electrical

Back-up alarm with three selectable modes

Heavy-duty maintenance free batteries

Refueling pump

Operator Station

Adjustable hydraulic sensitivity

CD/MP3 Radio (12V) at rear location including speakers and 12V converter

Falling objects guard

Joystick steering

Seat, adjustable high-back

– mechanical suspension

– air suspension (vertical)

– deluxe with headrest, air suspension

Travel speed lock

Vandalism guards

Visor for rain protection

Windshield

One-piece high impact resistant

70/30 split, openable

Undercarriage

Dozer blade, front or rear mounted

Outriggers, front and/or rear mounted

Spacer rings for tires

Wide axles

Other Equipment

Auto-lube system

(implements and swing gear)

Cat Machine Security System

Cat Product Link

Mirrors heated, frame and cab

Ride Control

Tires (see pg.15)

Waste Handling Package

M318D Wheel Excavator

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